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4 Hypertext databases and data mining 99%



Soumen Chakrabarti

ACM SIGMOD Record , Procèedings of the 1999 ACM SIGMOD international conference on Management of data June 1999

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The volume of unstructured text and hypertext data far exceeds that of structured data. Text and hypertext are used for digital libraries, product catalogs, reviews, newsgroups, medical reports, customer service reports, and the like. Currently measured in billions of dollars, the worldwide internet activity is expected to reach a trillion dollars by 2002. Database researchers have kept some cautious distance from this action. The goal of this tutorial is to expose database researchers to t ...

5 An overview of data warehousing and OLAP technology 99%



Surajit Chaudhuri , Umeshwar Dayal

ACM SIGMOD Record March 1997

Volume 26 Issue 1

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

6 Automatically extracting structure and data from business reports 99%




Stephen W. Liddle , Douglas M. Campbell , Chad Crawford


Proceedings of the eighth international conference on Information and knowledge management November 1999


A considerable amount of clean semistructured data is internally available to companies in the form of business reports. However, business reports are untapped for data mining, data warehousing, and querying because they are not in relational


form. Business reports have a regular structure that can be reconstructed. We present algorithms that automatically infer the regular structure underlying business reports and automatically generate wrappers to extract relational data.


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Communications of the ACM September 1998
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With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces clicking on hyperlinks and searching via keyword queries This process is often tentative and unsatisfactory Better support is needed for expressing one's information need and dealing with a search result in more structured ways than ...
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-  Karuna P. Joshi , Anupam Joshi , Yelena Yesha , Raghu Krishnapuram
Proceedings of the second international workshop on Web information and data management November 1999
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ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data June 1999
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In this paper we present a mechanism for translating constraint queries, i.e., Boolean expressions of constraints, across heterogeneous information sources. Integrating such systems is difficult in part because they use a wide range of constraints as the vocabulary for formulating queries. We describe algorithms that apply user-provided mapping rules to translate query constraints into ones that are understood and supported in another context, e.g. < ...

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